ORDER NO. KM49302457C1

Service Manual

AUTO-LOGIG"

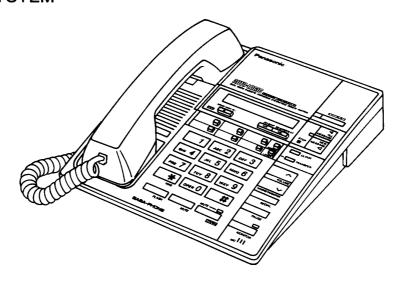
EASA-PHONE®
INTEGRATED TELEPHONE
ANSWERING SYSTEM

and Technical Guide

Telephone Equipment

KX-T2710

(for U.S.A.)



SPECIFICATIONS\TEXHUYECKUE XAPAKTEPUCTUKU

DISASSEMBLY INSTRUCTIONS\METOДИКА РАЗБОРКИ

СРИ DATA\ДАННЫЕ О МИКРОПРОЦЕССОРЕ

VOICE SYNTHESIZE IC DATA\ДАННЫЕ ОБ ИНТЕГРАЛЬНОЙ СХЕМЕ СИНТЕЗА ГОЛОСА

RECORD\PLAY AMP IC DATA\ДАННЫЕ ОБ ИНТЕГРАЛЬНОЙ СХЕМЕ УСИЛИТЕЛЯ ЗАПИСИ\ВОСПРОИЗВЕДЕНИЯ

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TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES\ЦОКОЛЕВКА

ИНТЕГРАЛЬНЫХ СХЕМ, ТРАНЗИСТОРОВ И ДИОДОВ

BLOCK DIAGRAM\БЛОК-СХЕМА

CASSETTE DECK PARTS LOCATION\PACПОЛОЖЕНИЕ ЧАСТЕЙ КАССЕТНОЙ ДЕКИ CABINET AND ELECTRICAL PARTS LOCATION\PACПОЛОЖЕНИЕ ЧАСТЕЙ КОРПУСА И ЭЛЕКТРИЧЕСКИХ ЧАСТЕЙ

EXTENSION CABLE CONNECTION METHOD\METOД ПОДСОЕДИНЕНИЯ СЕРВИСНЫХ КАБЕЛЕЙ

ACCESSORIES AND PACKING MATERIALS\AKCECCYAPЫ И УПАКОВОЧНЫЕ МАТЕРИАЛЫ

REPLACEMENT PARTS LIST\CПИСОК ЗАПАСНЫХ ЧАСТЕЙ

Panasonic

SPECIFICATIONS

General:

Power Source:

AC; AC adaptor KX-A11 (DC 12 V)

Power Output:

350 mW (max.)

Speaker:

Unit; 6.5 cm (2½") PM dynamic Handset; 2.6 cm (1¾16") PM magnetic type

Microphone:

Condenser microphone Telephone line, DC IN

Jacks: Dimensions:

7³/₄"×9⁷/₁₆"×2²⁷/₃₂" [197 (W)×240 (D)×72 (H) mm]

Weight:

2.469 lbs (1.12 kg)

(with handset)

Tape Deck Section:

Greeting Message

Micro Cassette (MC-10)

(OGM):

(First greeting)

Recording time is 30 seconds.

(Second greeting)

Recording time is 10 minutes.

Incoming message

(ICM):

Micro Cassette (MC-30)
Selectable recording times

(VOX/1 MIN/GREETING ONLY)

Tape Speed: 2.4 cm/s

Wow and Flutter: 0.65 % (WRMS)

Motor: Electrical governor motor

Design and specifications are subject to change without notice.

Telephone Section:

Memory Capacity: There are 6 Direct Call buttons, each Direct

Call button consists of Upper and Lower memory locations. Each location (upper and lower) is capable of storing 16 digits. (Transfer station is capable of storing

30 digits.)

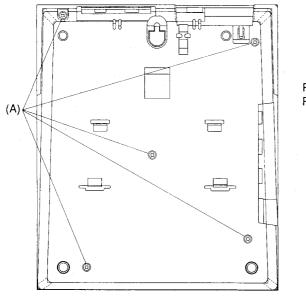
Dial Speed: Redial: Tone (DTMF)/Pulse (10 pps)
Last dialed telephone number up to

15 times in 10 minute period

Pause:

Two automatic dial tone detectors

DISASSEMBLY INSTRUCTIONS



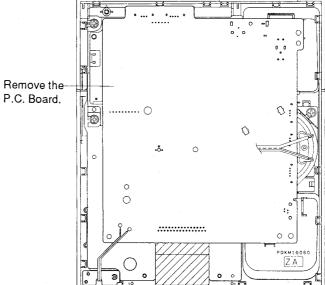
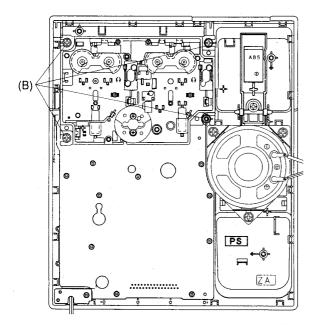


Fig. 5

Fig. 6





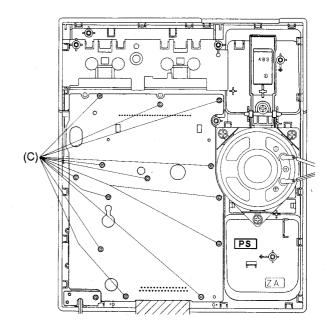
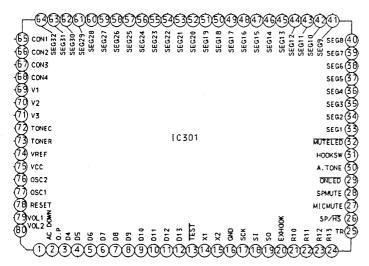


Fig. 8

| Ref. No. | Procedure | Shown in Fig. — | To remove —. | Remove —. |
|----------|-----------|-----------------|----------------------|------------------------|
| 1 | 1 | 5 | Lower Cabinet | Screws (3×16) (A)×5 |
| 2 | 1~2 | 6 | Main P.C. Board | Remove the P.C. Board. |
| 3 | 1~3 | . 7 | Cassette Deck | Screws (3×13) (B)×4 |
| 4 | 1~4 | 8 | Operation P.C. Board | Screws (2.6×8) (C)×13 |

CPU DATA (ITS)



 Part No.:
 PQVI4618A78F

 Power Supply:
 5±0.1 V

 Program ROM:
 8K×10 bit

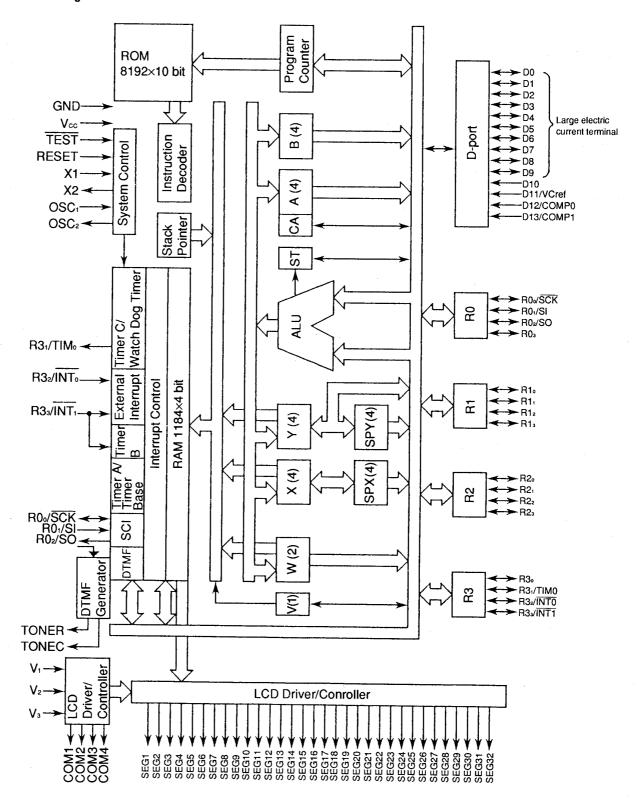
 Inside Data RAM:
 1184×4 bit

| Pin No. | Port Name | Contents | High | Low |
|---------|--------------|--------------------------------|---------------|------------|
| 1 | Power Down | AC Down Input | AC power O | AC power X |
| 2 | DP. | Dial Pulse Output | Make (H-imp.) | Break |
| 3~8 | D4~D9 | Key Switch Strob Input | Normal | Active |
| 9~11 | D10~D12 | Key Switch Input | Normal | Active |
| 12 | Stop | Stop Input | Stop | Move |
| 17 | SCK | Serial Clock Output | | |
| 18 | SI | Serial Data Input | | |
| 19 | so | Serial Data Output | | |
| 20 | EX-Hook | Detect the parallel connection | OFF-Hook | ON-Hook |
| 21~24 | R10~R13 | Key Input | Normal | Active |
| 25 | TR | Tip-Ring Control Output | ON | OFF |
| 26 | SP/HS | SP-Phone/Handset Change | SP-Phone | Handset |
| 27 | MIC Mute | Transmission Mute Output | ON | OFF |
| 28 | SP Mute | Reception Mute Output | ON | OFF |
| 29 | ON LED | SP-Phone LED Output | OFF | ON |
| 30 | Audible Tone | Key Tone Output | | Normal |
| 31 | Hook Switch | Hook Switch Input | ON-Hook | OFF-Hook |
| 32 | Mute LED | Mute LED Output | OFF | ON |
| 41~64 | Segment9~32 | LCD Segment Output | | |
| 65~68 | Common1~4 | LCD Common Output | | |
| 72 | Tone C | DTMF Output | | Normal |
| 73 | Tone R | DTMF Output | | Normal |
| 79 | HSVOL1 | Handset Volume Output | (H) | (M) (L) |
| 80 | HSVOL2 | Handset Volume Output | HS VOL1 L | H L |
| | | | HS VOL1 L | L H |

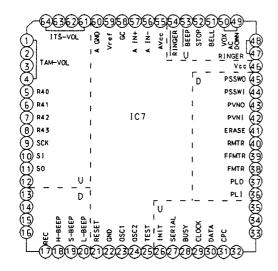
●Pin Description

| Prin Description | • | | | |
|------------------|--------------|------------------|-----|--|
| Pin No. | Part Name | Name | I/O | Description |
| 75 | _ | Vcc | 1 | Connect to the power supply. |
| 16 | Power supply | GND | l | Connect to GND. |
| 13 | Test | TEST | 1 | Not for a user application. Connect to V _{cc} . |
| 78 | Reset | RESET | I | When this is at high level, MCU is reset. |
| 76 | | OSC ₁ | I | I/O terminals for the internal oscillator. |
| 77 | | OSC₂ | 0 | Connect the ceramic filter or the external oscillator circuit. |
| 14 | Oscillation | X1 | I | Oscillator for clock connecting to the crystal oscillator of |
| 15 | | X2 | 0 | 32.768 kHz. |
| 79, 80, 1~8 | | D0~D9 | I/O | I/O port for addressing every 1 bit. Output terminals D0~D9 for |
| 9~12 | Port | D10~D13 | I | large electric current of 16 mA at maximum. Terminals D11~D13 are used as voltage comparators. |
| 17~32 | · | R0~R3 | 1/0 | I/O port for addressing every 4 bits. R0 ₂ ~R0 ₂ , R3 ₁ ~R3 ₃ are shared with SCK, SI, SO, TIM0, INT0 and INT1. |
| 31 | | ĪNTO | I | E. Listamortina de la companya della companya della companya de la companya della |
| 32 | Interrupt | ĪNT1 | .1 | External interrupt input terminal. |
| 17 | | SCK | I/O | SCI clock I/O terminal. |
| 18 | Serial | SI | 1 | SCI data reception input terminal. |
| 19 | · | so | 0 | SCI data transmission output terminal. |
| 30 | Timer | TIMO | 0 | Square output terminal (duty-variable). |
| 69~71 | 1.00 | V1, V2, V3 | I | Power supply terminal for liquid crystal driver. The power supply split resistor is built in for normal open circuit. The power supply condition is V _{cc} , V1, V2, V3 and GND. |
| 65~68 | LCD | COM1~COM4 | 0 | Common signal terminal for LCD. |
| 33~64 | | SEG1~SEG32 | 0 | Segment signal terminal for LCD. |
| 73 | | TONER | 0 | Output terminal of DTMF signal of ROW. |
| 72 | DTMF | TONEC | 0 | Output terminal of DTMF signal of COLUMN. |
| 74 | | VTref | 1 | Standard level power supply of DTMF output. Apply V _{cc} VTref GND. |
| 11 | | COMP0 | I | |
| 12 | Voltage | COMP1 | I | Analog input terminal for the voltage comparator |
| 10 | Comparator | VCref | ı | Standard voltage terminal for inputting the threshold voltage of the analog input terminal. |

•ITS CPU Block Diagram



CPU DATA (TAM)



Part No.: PQVI4678A24H
Power Supply: 4.5~5.5 V
Program ROM: 8K×10 bit
Inside Data RAM: 512×4 bit

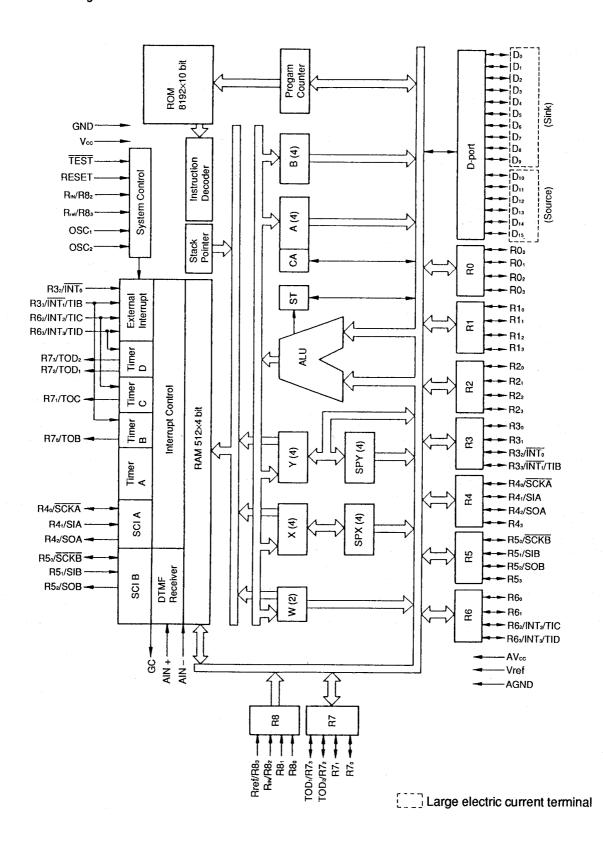
| Pin | Port Name | High | Low | Pin | Port Name | High | Low |
|-----|---------------|--------------|-----------|-------|------------------|---------------|---------|
| No. | | _ | | No. | | - | |
| 1~4 | TAM Volume | / | | 32 | Strob Option | | Active |
| 5 | In OGM Play | / | ON | 33 | Transfer LED | | |
| | All Playback | / | | 34 | IN Use LED | LED OFF | LED ON |
| 6 | In OGM Record | / | ON | 35 | Answer LED | LED OFF | LED ON |
| | New Playback | / | | 36 | Plunger-ICM | LED OFF | LED ON |
| 7 | In OGM Select | / | ON | 37 | Plunger-Greeting | ON | |
| | Answer | / | | 38 | Play Motor | ON | / |
| 8 | In Erase Stop | / | ON | 39 | FF Motor | ON | / |
| 9 | SCK | / | | 40 | Rew Motor | ON | / / |
| 10 | SI | / | | 41 | Erase | ON | / / |
| 11 | so | / | | 42 | RVN-ICM | | / |
| 12 | Strob Option | | Active | 43 | RVN-Greeting | | / |
| 13 | Strob Key | | Active | 44 | Position SW-ICM | Newtral | / |
| 14 | Strob Key | / | Active | 45 | Position SW | Newtral | |
| 15 | Strob Option | / | Active | | -Greeting | | / |
| 16 | Strob Option | / | Active | 46 | Vcc | | |
| 17 | Record Bias | ON | / | 47 | Ringer High | | ON |
| 18 | Head Beep | | / | 48 | Ringer Off | | ON |
| 19 | Ringer/S Beep | | / | 49 | AC Down | | AC Down |
| 20 | Line Beep | | / | 50 | Vox | | Vox |
| 21 | Reset | Reset | / | 51 | Bell | / | Bell |
| 22 | GND | | / | 52 | Stop | Stop | |
| 23 | Oscillator 1 | | | 53 | Ringer Low | Ringer Volume | |
| 24 | Oscillator 2 | | / | 54 | Beep Low | Ringer Volume | / |
| 25 | Test | | /- | 55 | A VCC | | / |
| 26 | INIT | TI-IC Active | / | 56 | A IN - | | / |
| 27 | Serial | | / | 57 | A IN + | | / / |
| 28 | Busy | TI-IC Busy | Not -Busy | 58 | GC | | / / |
| 29 | Clock | | | 59 | VREF | | / |
| 30 | Data | | | 60 | A GND | | / |
| 31 | CPC | | CPC | 61~64 | ITS Volume | / | / |

KX-T2710

●Pin Description

| Part Name | Part No. | Name | 1/0 | Description |
|------------------------|----------------------|-------------------------------------|----------|---|
| 46 | | Vcc | | Applies voltage of 5 V±10%. |
| 22 | Power supply | GND | | Connect to GND. |
| 25 | Test | TEST | | Not for a user application. Connect to Vcc. |
| 21 | Reset | RESET | l | For resetting the MCU. |
| 23, 24 | Oscillation | OSC ₁ , OSC ₂ | 1 | Input terminal to the internal oscillator. For connecting to the liqui crystal or the external oscillator circuit. |
| 26~35 | | Do~D9 | I/O | I/O port for addressing every 1 bit. The large electric current sink terminal with the pull-up MOS. |
| 36~41 | | D10~D15 | I/O | I/O port for addressing every 1 bit. The large electric current source terminal with the pull-down MOS. |
| 1~20 47~54 61~64 | Port | R0₀~R7₃ | 1/0 | I/O port for addressing every 4 bits. Terminals R0 ₀ ~R5 ₃ are with the pull-up MOS. R60~R83 are with the pull-down MOS. |
| 42~45 | | R8₀~R8₃ | 1. | Input port for addressing every 4 bits. The standard terminal with the pull-down MOS. |
| 3, 4, 15, 16 | Interrupt | ĪNTO~ĪNT3 | . 1 | External interrupt input terminal. Terminals INT0~INT3 are shared with R32, R34/TIB, R62/TIC, R64/TID terminal. |
| 5, 9 | Coriol | SCKA, SCKB | 1/0 | Clock I/O terminal for SCIA and SCIB. |
| 6, 10 | Serial communication | SIA, SIB | ı | Data reception input terminal for SCIA and SCIB. |
| 7, 11 | interface | SOA, SOB | 0 | Data transmission output terminal for SCIA and SCIB. |
| 4, 15, 16 | T: | TIB, TIC, TID | ı | External clock input terminal for timer B, C and D. Terminals TIB, TIC and TID are shared with R3 ₂ /INT1, R6 ₂ /INT2 and R6 ₃ /INT3 terminals respectively. |
| 17, 18, 19, 20 | Timer | TOB, TOC, | 0 | External clock output terminal for timer B, C and D. Terminals TOB, TOC and TOD are shared with R7 ₀ , R7 ₁ , R7 ₂ and R7 ₃ terminals respectively. |
| 55 | | AVcc | | Power supply terminal for the DTMF receiver analog block. Make connection near the power supply to get the same electric potential of V _{cc} . Use the stabilized power supply. |
| 60 | | AGND | · | Power supply terminal for the DTMF receiver analog block. Make connection near the power supply to get the same electric potential of $V_{\rm cc}$. |
| 59 | DTMF receiver | Vref | | GND level of the DTMF receiver analog block. Apply the stabilized voltage of AVcc/2. |
| 57, 56 | | AIN+, AIN- | , | Input terminal of the DTMF receiver signal. The AIN+ is input into the non inversion input of the DTMF receiver's first OPE AMP. The AIN- is input into the inversion input. |
| 58 | | GC | 0 | Gain regulation terminal for the DTMF receiver. |
| 45 | Reset voltage | Rref | 1 | Standard voltage input terminal for inputting the threshold voltage of the reset voltage variable circuit. The Rref terminal is shared with the R83 terminal. |
| | Variable Circuit | | | Analog input terminal for the reset voltage variable circuit. The R |

●TAM CPU Block Diagram



VOICE SYNTHESIZE IC DATA

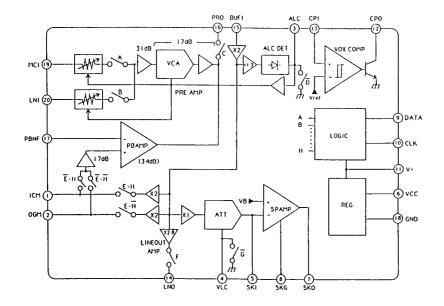


Part No.: PQVICS10080N

Pin Description

| Pin No. | Name | Description |
|---------------|---------|---|
| 11 | DA1 | D/A output. |
| 6 | ĪNIT | Initializing input. When INIT is at low level, the clock stops and CSM11127A is set to the low power mode, and the program counter is set to "0". Then, the contents of RAM is memorized. The INIT pulse more than 1 µs is required to reset the processor. |
| 7 | OSC1 | Clock input. For connection crystal or ceramic oscillator between OSC1 and OSC2, or clock signal input to OSC1. The clock frequency is 7.68 MHz. |
| 8 | OSC2 | Clock return. |
| 1~4, 13~16 | PA0~PA7 | 8-bit bi-directional I/O port |
| 9~10 | PB0~7 | 3-bit bi-directional I/O port |
| 12 | Voo | 5 V power source/voltage |
| 5 | Vss | GND |

RECORD/PLAY AMP IC DATA



Part No.: PQVIS79100PK

●Pin Description

| Pin No. | Name | Description |
|---------|------|---|
| 1 | ICM | I/O for ICM head. I/O impedance is approximately 20 kohm that keeps high impedance sufficient for head load. |
| 2 | одм | I/O for OGM head. The same configuration as ICM. |
| 3 | ALC | For connection to CR for ALC detection smoothing. The time constant of the CR decides the recovery time. The attack time depends on the values of C and internal resistance (approx. 8.5 kohm). |
| 4 | VLC | Volume control input. The speaker output controlled by changing the volume resistance between this pin and GND. |
| 5 | ski | Reverse input of the speaker amplifier. The gain and frequency characteristics are set by external CR. Non-reverse input is biased by internal power source (approx. ½ Vcc). |
| 6 | Vcc | Power source of IC except LOGIC part. |
| 7 | sко | Output of speaker amplifier. Sets frequency characteristics by connecting to Pin 5 in parallel. Speaker's impedance is normally 30 ohms. |
| 8 | SKG | GND of speaker amplifier output part. |
| 9 | DATA | Input of control data for mute mode. For serial synchronous input with clock signal. |
| 10 | CLK | Clock input for data input sychronization. Controls shift register by data bit at fall, and latches by reading data at rise. |
| 11 | V+ | 5.4 V stable output to supply bias with microphone. |
| 12 | СРО | Output of comparator. Connected to open-collector of NPN transistor. |

| Pin No. | Name | Description |
|---------|------|--|
| 13 | СРІ | Input of VOX detector comparator. Compares internal reference voltage with gained voltage, and has a bit hysteresis characteristics. |
| 14 | LNO | Output of buffer amplifier for line output. Radio amplifier. |
| 15 | BUFI | Inputs of Recording amplifier, line output amplifier, speaker amplifier, and ALC detector. These are input after voltage/radio conversion by CR between this pin and Pin 16. |
| 16 | PRO | Output of MIC/LINE amplifier and playback amplifier. |
| 17 | PBNF | Reverse input of playback amplifier for controlling frequency characteristics. The CR network between this pin and Pins 16 and 18 set frequency and gain. |
| 18 | GND | GND for all ICs except speaker amplifier. |
| 19 | MCI | Input of microphone amplifier. The input resistance is normally 33 kohms. |
| 20 | LNI | Input of line amplifier. The same configuration as MCI. |

IC BLOCK DIAGRAM

IC1 PQVIBA8205

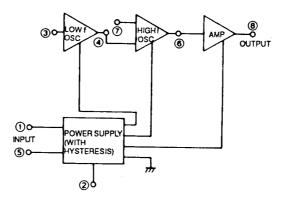
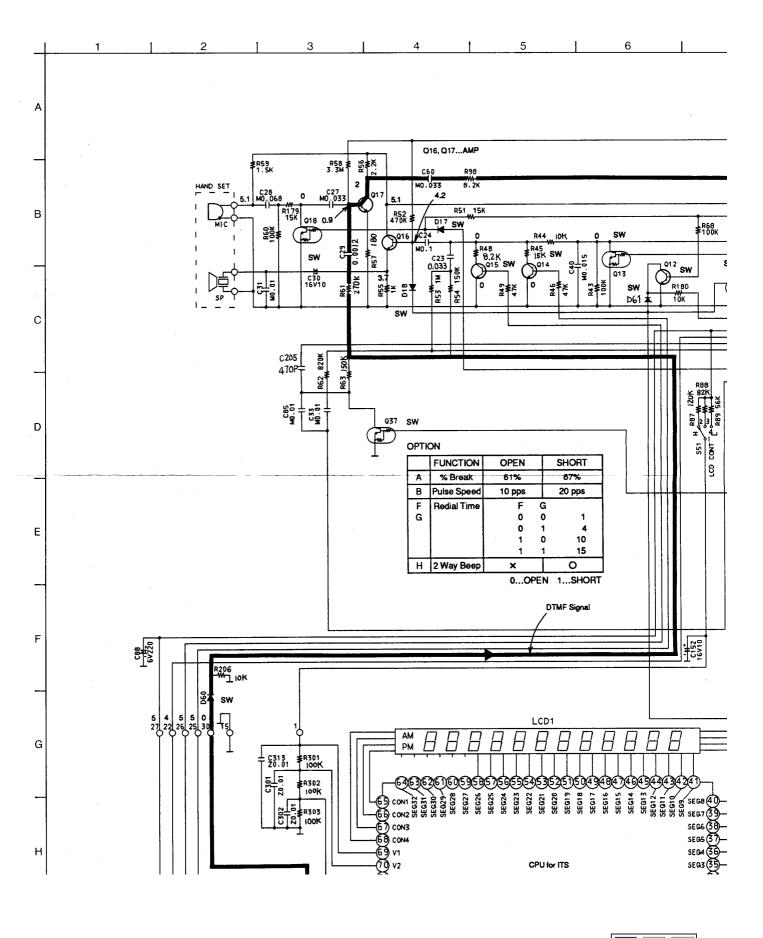


Fig. 9

MEASUREMENT AND ADJUSTMENT METHOD

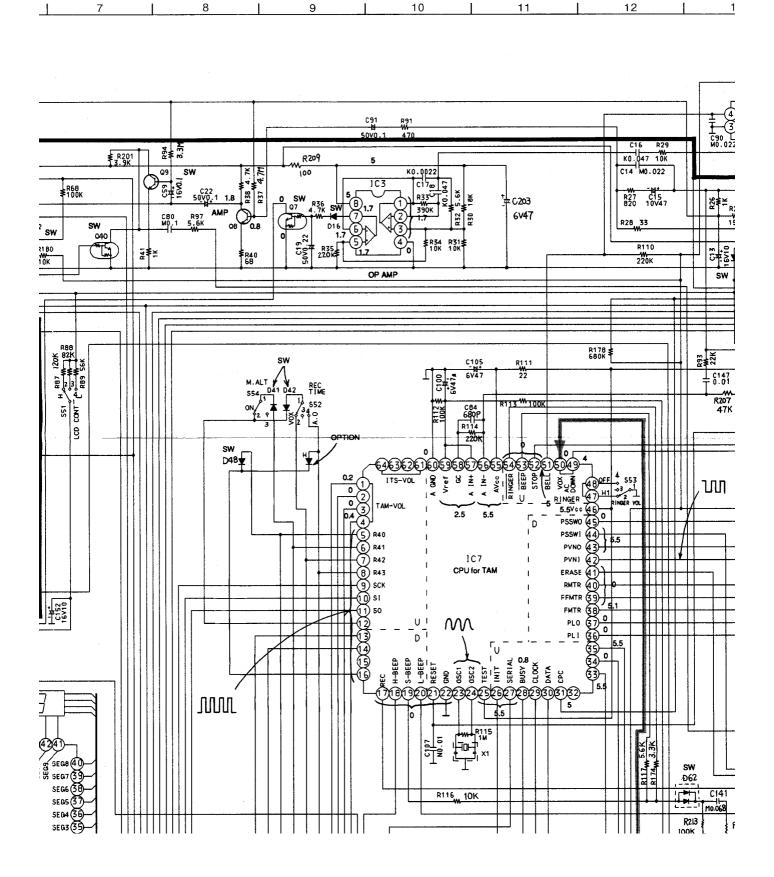
- Notes: 1. Make sure the heads are clean.
 2. Make sure the capstan and pressure roller are clean.
 - Room temperature for measuring and adjusting: 20±5°C (68±9°F)
 Test equipments are not treated as replacement parts.

| | not treated as replacement parts. | |
|--------------------------|---|------------------------|
| ITEM | MEASUREMENT & ADJUSTMENT | REMARKS |
| Head azimuth adjustment | Play back the test tape (QZZCWAT or PQZZLCT2401A) [Ref No. Z3]. Adjust screw (B) shown in Fig. B for maximum output at SP terminal. (Test equipment connection is shown below.) | * Record/playback head |
| | | (B) |
| | Test tape Playback mode VTVM Oscilloscope ① OGM side— | Fig. B |
| | Z3 | |
| | | |
| | ② ICM side | |
| 2. Tape speed adjustment | Play back the test tape (QZZCWAT or PQZZLCT2401A) [Ref No. Z3]. Adjust VR1 for 2980–3000 Hz on frequency counter reading. | |
| · | Test lape Frequency Counter | |
| | Z3 | |
| | | |



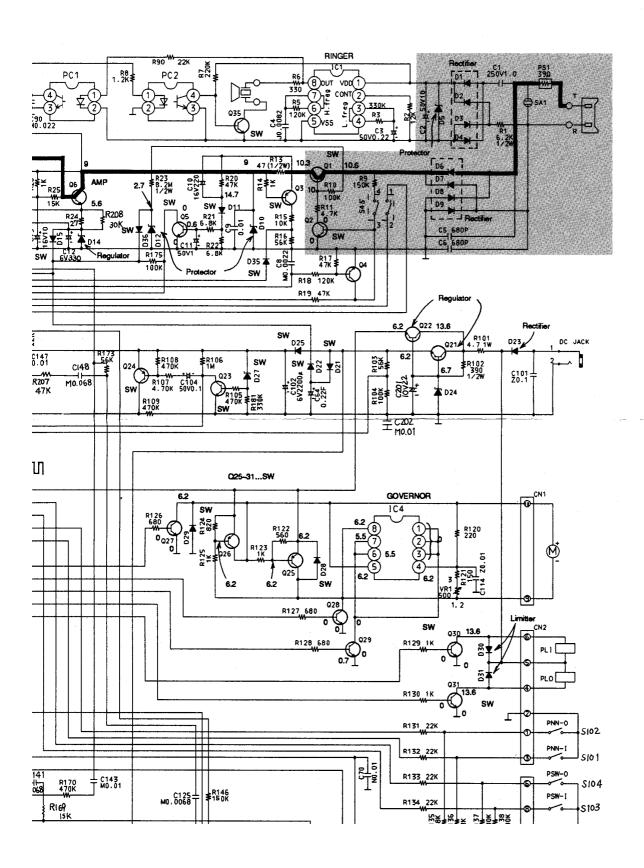


SCHEMATIC DIAGRAM

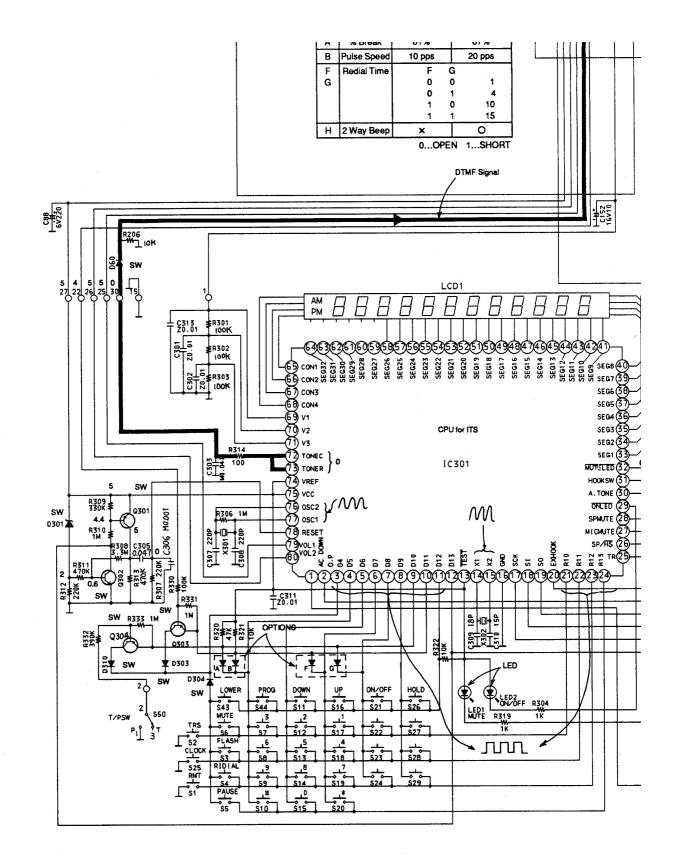




13 | 14 | 15 | 16 | 17 | 18 | 19



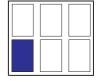


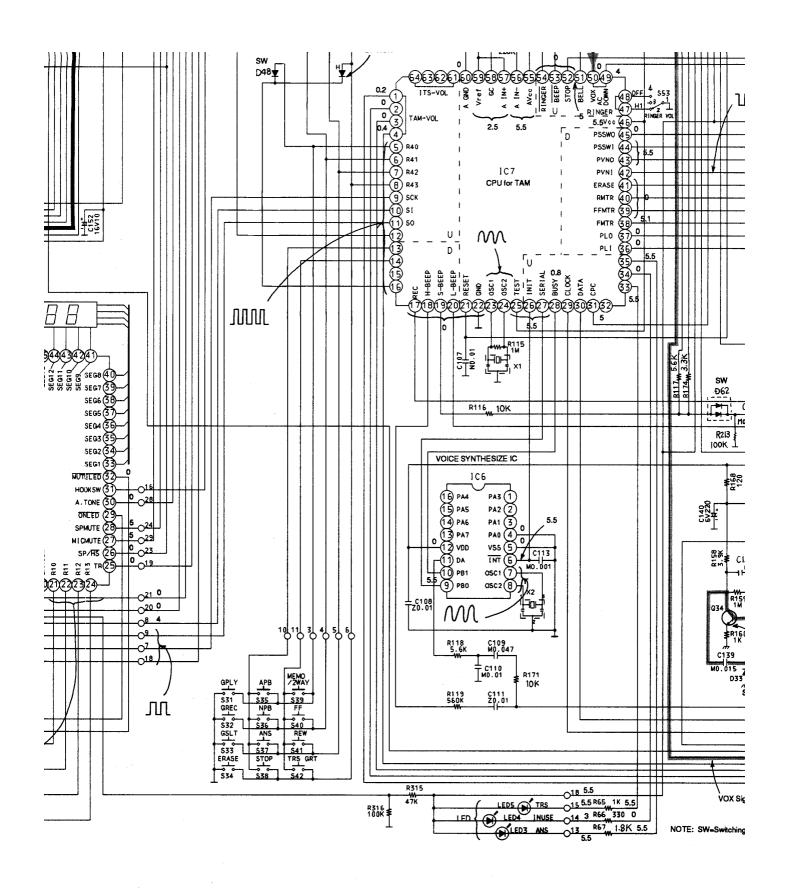


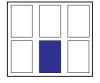
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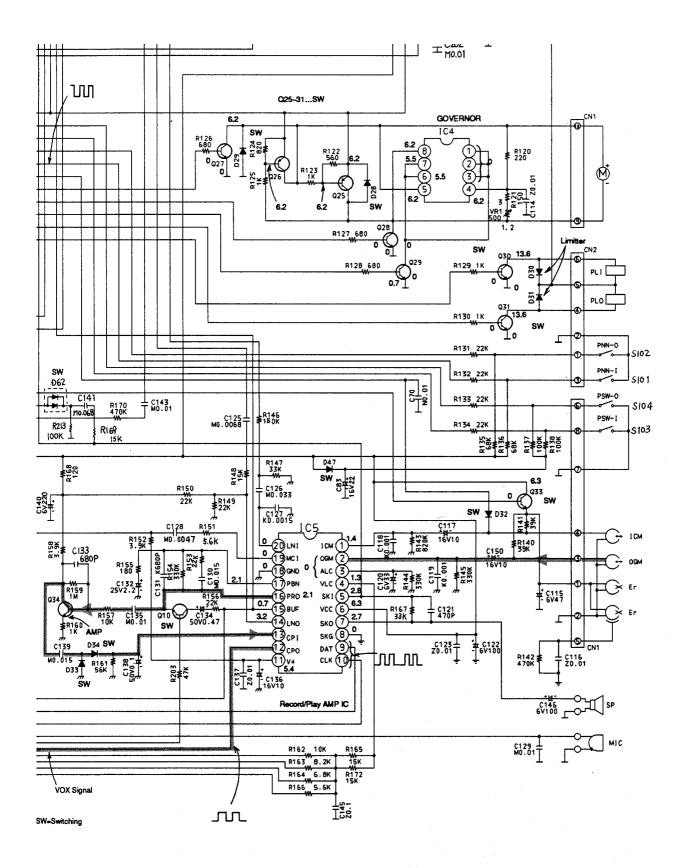
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K



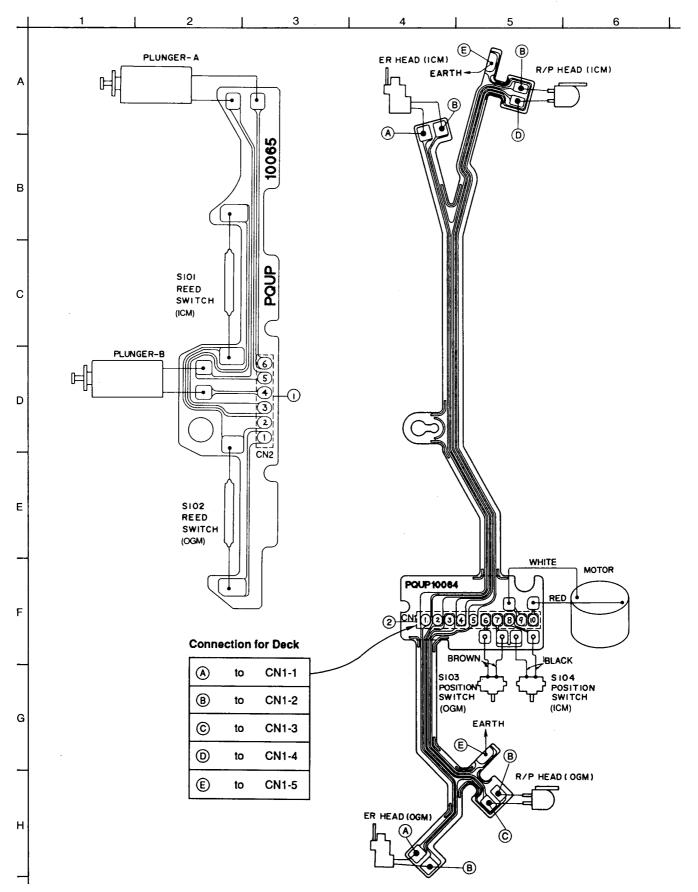








CASSETTE DECK CONNECTION



TERMINAL GUIDE OF ICs, TRANSISTORS AND DIODES

| 33 32 48 49 64 1 17 16 PQVI4678A24H | Cathode Anode MA141WK | PQVIUPC358C PQVIBA6220 PQVIBA8205 | Anode Calhode LN268RPXTAB PQVDSEL1123R | PQVICS10080N |
|--|-------------------------------------|---|--|-----------------------------|
| E C B 2SA1625 2SC2120 PQVTKSD261CY | 2SC1740S 2SC3330 2SA854 2SC1741S | E C B 2SD662B | 2SD2136 2SD2137 | UN5213 2SB1218A 2SD1819A |
| Anode POVDMTZ5R1 PQVDS5688G | Anode Cathode MA4300 MA4180 | Anode Cathode MA4062 MA4047 MA4051 | Anode PQVDMTZ6R8 MA700A 1SS119 | LN260RPX |
| 64 41 40 65 25 80 1 PQVI4618A78F | 28 15 14 PQVISC77655S | B C E PQVTBB1A4M PQVTBB1J3P | LN342GPX | |

BLOCK DIAGRAM

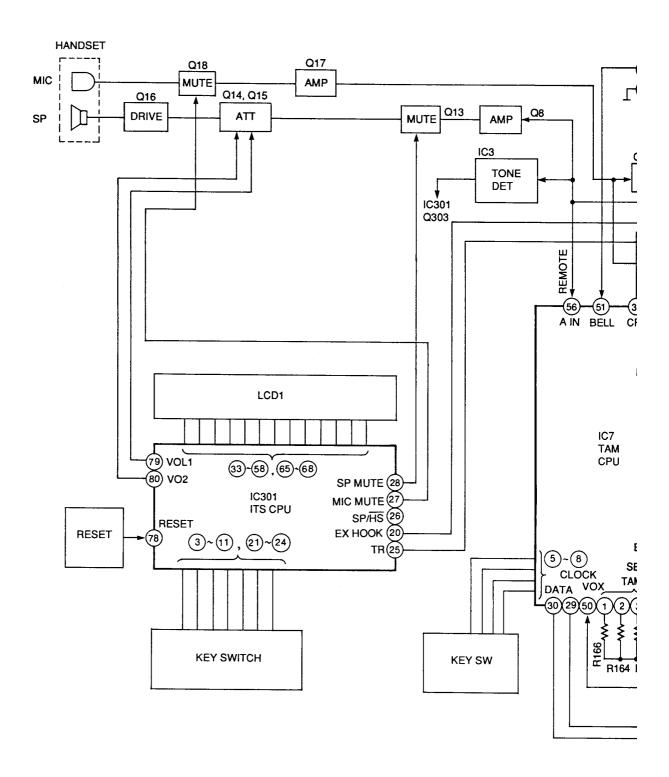


Fig. 10



BLOCK DIAGRAM

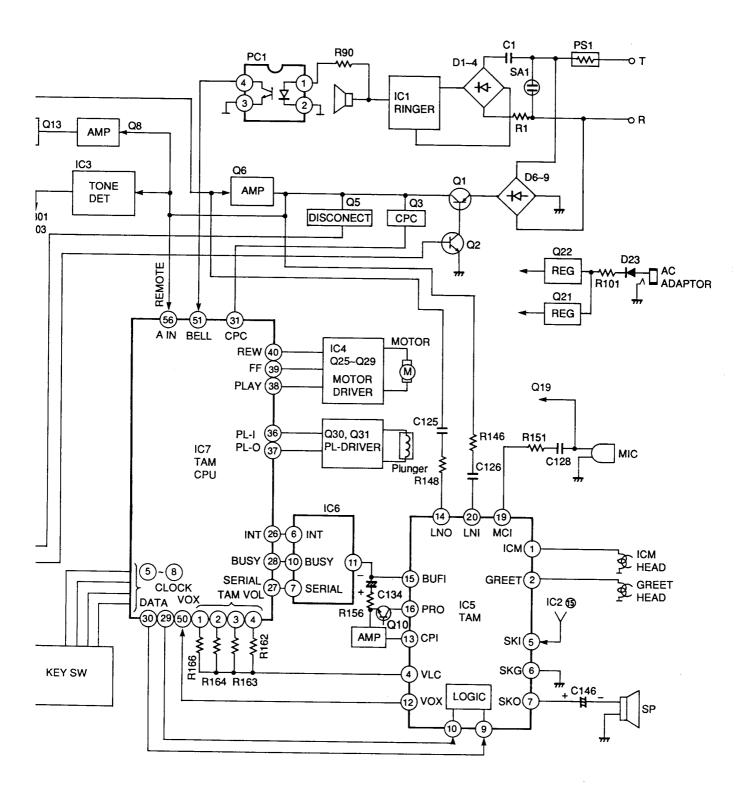
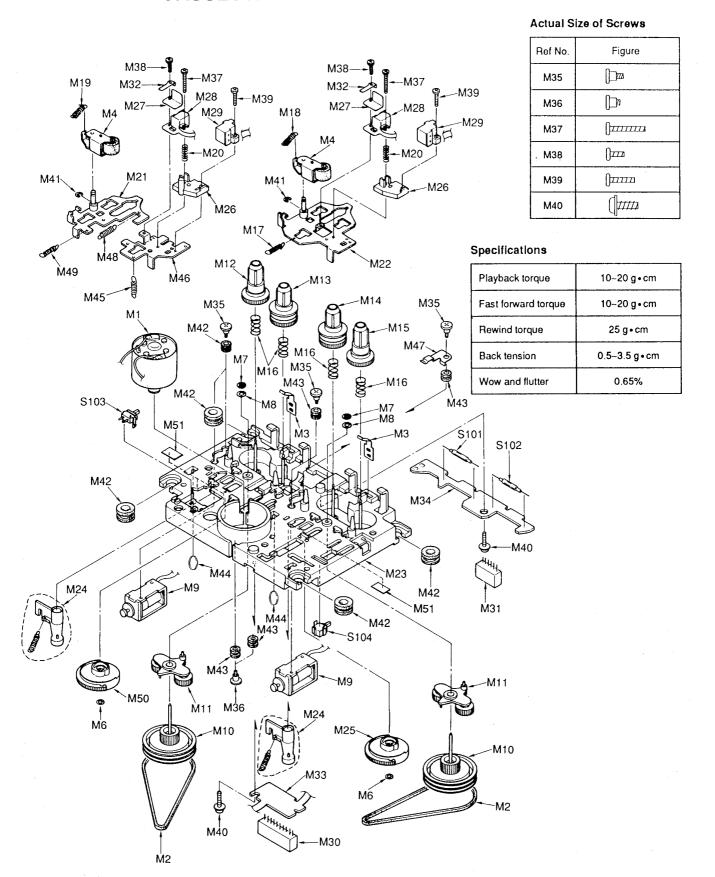


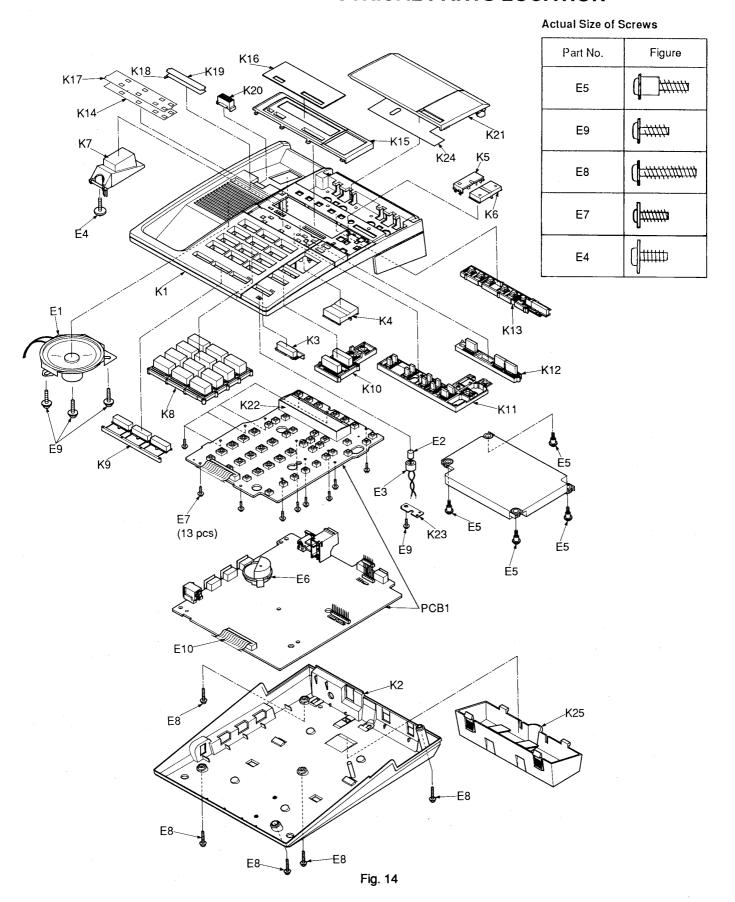
Fig. 10

CASSETTE DECK PARTS LOCATION

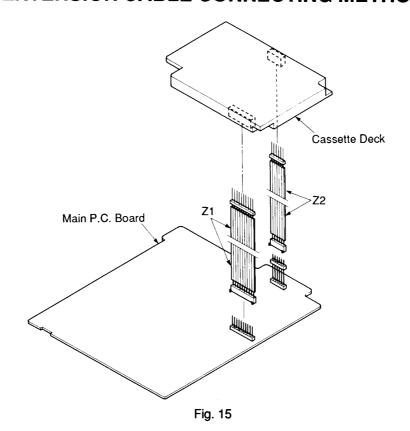


Fia. 13

CABINET AND ELECTRICAL PARTS LOCATION



EXTENSION CABLE CONNECTING METHOD



ACCESSORIES AND PACKING MATERIALS

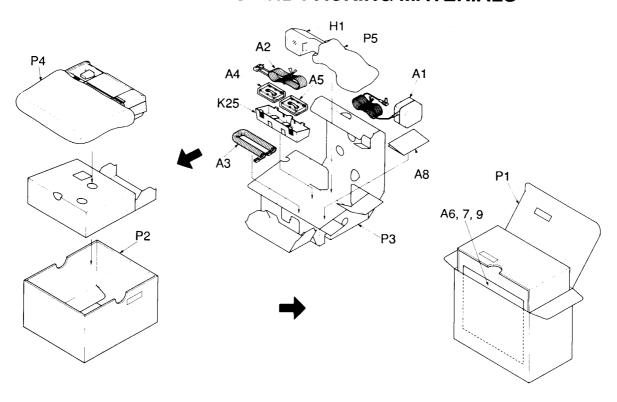


Fig. 16

Ref. No.

Part No.

Part Name & Description

Pcs/Set

REPLACEMENT PARTS LIST Model KX-T2710 1. RTL (Retention Time Limited) Note: The marking (RTL) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available. Important safety notice. Components identified by the Δ mark special characteristics important for safety. when replacing any of these components, use only manufacture's specified parts. 3. The S mark indicates service standard parts and may differ from production parts. 4. RESISTORS & CAPACITORS Unless otherwise specified. All resistors are in ohms(Ω) k=1000 Ω ,M=1000k Ω All capacitors are in MICRO FARADS(μF) P=μμF *Type &Wattage of Resistor Type ERC:Solid ERX:Metal Film PQ4R:Carbon ERD:Carbon ERG:Metal Oxide ERS:Fusible Resistor PQRD:Carbon ER0:Metal Film ERF:Cement Resistor Wattage 10,16:1/8W 12:1/2W 14,25:1/4W 2:2W 3:3W 1:1W Type & Voltage of Capacitor Type ECFD:Semi-Conductor ECCD,ECKD,ECBT,PQCBC : Ceramic ECQS:Styrol ECQE,ECQV,ECQG : Polyster PQCUV:Chip ECEA,ECSZ : Electrolytic ECOMS:Mica ECQP: Polyproplylene Voltage ECQ Type ECOG ECSZ Type Others ECQV Type 1H: 50V 05: 50V 0F:3 15V OJ :6.3V :35V 2A:100V 1:100V 1A:10V 1A :10V 50,1H:50V 2E:250V 2:200V 1V:35V 1C :16V 1J :63V 2H:500V 0J:6.3V E,25:25V 2A :100V

| Ref. No. | Part No. | Part Name & Description | Pcs/Se |
|----------|---------------|--------------------------------|--------|
| | _ | CASSETTE DECK PARTS | i |
| M1 | PQFMJD2200Z | MOTOR ASSEMBLY | 1 1 |
| M2 | PQFB10002Z | ANGULAR BELT | 2 |
| M3 | PQFD10009Z | LEAF SPRING | 2 |
| M4 | PQFIJD2200Y | PINCH LEVER ASSEMBLY | 2 |
| M5 | Not Used | | - |
| M6 | PQFN16Z | WASHER | 2 |
| M7 | PQFN33Z | WASHER | 2 |
| M8 | PQFN49Z | WASHER | 2 |
| M9 | PQFP10001Z | PLUNGER | 2 |
| M10 | PQFFJD2200X | FLYWHEEL ASSEMBLY | 2 |
| M11 | PQFG1D2200Z | GEAR ARM ASSEMBLY | 2 |
| M12 | POFR1D2200Z | ICM TAKEUP REEL TABLE ASSEMBLY | 1 |
| M13 | PQFR2D2200Z | ICM SUPPLY REEL TABLE ASSEMBLY | 1 |
| M14 | PQFR3D2200Z | OGM TAKEUP REEL TABLE ASSEMBLY | 1 |
| M15 | PQFR4D2200Z | OGM SUPPLY REEL TABLE ASSEMBLY | 1 |
| M16 | PQFS10005Z | SPRING, BACK TENSION | 4 |
| M17 | PQFS10007Z | SPRING, HEAD BASE | 1 |
| M18 | PQFS10015Z | SPRING, OGM PINCH LEVER | 1 |
| M19 | PQFS10019Z | SPRING, ICM PINCH LEVER | 1 |
| M20 | PQFS73Z | SPRING, AZIMUTH | 2 |
| M21 | PQFD1D2201Z | ICM HEAD BASE-A ASSEMBLY | 1 |
| M22 | PQFD2D2200X | OGM HEAD BASE ASSEMBLY | 1 |
| M23 | PQFCJD2200Z | MECHANISM CHASSIS ASSEMBLY | 1 |
| M24 | PQFYJD2200Z | TRIGGER LEVER ASSEMBLY | 2 |
| M25 | PQFG2D2200Y | OGM CAM GEAR ASSEMBLY | 1 |
| M26 | PQFW10010Y | ERASE HEAD BASE | 2 |
| M27 | PQHR321Y | INSULATOR | 2 |

| M28 | | | | |
|--|-------------|-------------|----------------------------|-------|
| M30 | M28 | PQJH1M2X | P/R HEAD | 2 |
| M30 | M29 | | | |
| M31 | 11 | 1 | | 1 |
| M33 | 11 . | | • | 1 |
| M33 | 11 | – | • | |
| M35 | 1 2 | | | |
| M36 | | | | 1 |
| M36 | | | | l . |
| M37 | 1 1 | | | |
| M38 | I I | | | |
| M39 | | | | 2 |
| M40 | 1 | | | |
| M41 | | 1 | | 2 |
| M42 | | I I | | 2 |
| M43 | 1 | | RETAINING RING | 2 |
| M44 | _ | | CUSHION, CHASSIS | 4 |
| M45 | M43 | PQFI14Z | CUSHION, PLUNGER and MOTOR | 6 |
| M45 | M44 | PQFE10001Z | RUBBER, RING | 2 |
| M46 | M45 | PQFS10010Z | SPRING | |
| M47 | M46 | PQFD10004Z | ICM HEAD BASE-B | |
| M48 | M47 | PQFD10014Z | l . | |
| M49 | M48 | PQFS10002Z | | ' 1 |
| M50 | M49 | | I | |
| M51 | | 1 | | |
| S101 | | I . | | |
| S102 | 1 | | | |
| S103 | | | | |
| CABINET PARTS | | | , , | |
| CABINET PARTS | | | 1 | · ' I |
| Note | 13104 | FUSH IASZZ | SWITCH, POSITION (OGM) | 1 |
| Note | 1 | | | • |
| Note | | | |] |
| Note | | <u> </u> | CARINET PARTS | |
| K2 | 1 | , | CADINET FARTS | |
| K2 | K1 | POKM10060V1 | LIPPED CARINET | |
| K3 | 1 | | 1 | |
| K4 | | | | |
| K5 | 1 ' | 1 | 1 | |
| K6 | 1 | | | i i |
| K7 | 1 | | | |
| K8 | | 1 | | |
| K9 | 3 | | I I | 1 |
| K10 | 1 | 1 | | 1 |
| K11 | 1 | | | 1 |
| K12 | 1 | | | 1 |
| K13 | 1 | 1 | | 1 |
| K14 | 1 - | 1 | BUTTON, FF/REW/MEMO | 1 |
| K15 | | | | 1 |
| K16 | | PQGD10059Z | MEMORY CARD | 1 |
| K16 | | PQGG10022Z1 | GRILLE | - 1 l |
| K17 | K16 | PQGP10037Z1 | PANEL | |
| Color Colo | K17 | PQGV10011Z | TRANSPARENT PLATE | 1 |
| K18 | 1 | 1 | 1 | |
| R19 | K18 | PQHP532U | TELEPHONE NUMBER CARD | ١, ١ |
| (for Telephone Number Card) | K19 | 1 | | - i |
| K20 | 1 | | | ' |
| K21 | K20 | PQKE46X7 | | ٠, ١ |
| K22 | |) | 1 | |
| R23 | I | | 1 | L L |
| MICROPHONE COVER 1 | | 4 | | |
| R24 | | . 3,100402 | 1 | ' |
| ELECTRICAL PARTS 1 | K24 | POQT103677 | | . 1 |
| ELECTRICAL PARTS E1 | | | | 1 |
| E1 POAS65P19Z SPEAKER 1 E2 POJM122Z MICROPHONE 1 E3 POMG10004Z RUBBER, MICROPHONE COVER 1 E4 PJHE5065Z SCREW, HOOK SWITCH 1 E5 POHD10009Z SCREW, DECK 4 | | - SINE 1070 | OTAND | 1 |
| E1 POAS65P19Z SPEAKER 1 E2 POJM122Z MICROPHONE 1 E3 POMG10004Z RUBBER, MICROPHONE COVER 1 E4 PJHE5065Z SCREW, HOOK SWITCH 1 E5 POHD10009Z SCREW, DECK 4 | ĺ | ! | | I |
| E1 POAS65P19Z SPEAKER 1 E2 POJM122Z MICROPHONE 1 E3 POMG10004Z RUBBER, MICROPHONE COVER 1 E4 PJHE5065Z SCREW, HOOK SWITCH 1 E5 POHD10009Z SCREW, DECK 4 | | EI | ECTRICAL PARTS | |
| E2 POJM122Z MICROPHONE 1 E3 POMG10004Z RUBBER, MICROPHONE COVER 1 E4 PJHE5065Z SCREW, HOOK SWITCH 1 E5 POHD10009Z SCREW, DECK 4 | 1 | EL | LOTRICAL PARTS | |
| E2 POJM122Z MICROPHONE 1 E3 POMG10004Z RUBBER, MICROPHONE COVER 1 E4 PJHE5065Z SCREW, HOOK SWITCH 1 E5 POHD10009Z SCREW, DECK 4 | F1 | POASSSP107 | SDEAKED | |
| E3 POMG10004Z RUBBER, MICROPHONE COVER 1 E4 PJHE5065Z SCREW, HOOK SWITCH 1 E5 POHD10009Z SCREW, DECK 4 | ! | | i i | |
| E4 PJHE5065Z SCREW, HOOK SWITCH 1 1 1 1 1 1 1 1 1 1 | | | - 1 | |
| E5 PQHD10009Z SCREW, DECK 4 | 1 | | | |
| 1 | | | 1 | - 1 |
| EO JEQWHITISTIOM BUZZER ASSEMBLY 1 | | 1 | | |
| | ED | PQWH113110M | IBUZZEH ASSEMBLY | _1 |

| Ref. No. | Part No. | Part Name & Description | Pcs/Set | Ref. No. | Part No. | Part Name & Description | Pcs/Se |
|----------|---------------------|------------------------------------|----------|----------------|----------------|---|-----------|
| E7 | XTW26+8F | SCREW (26 X 8) | 13 | l | | (TRANSISTORS) | - |
| E8 | XTW3+S16M | SCREW (3 X 16) | 5 | Q1 | 2SA1625 | TRANSISTOR(SI) | |
| E9 | XTW3+S8M | SCREW (3 X 8) | 4 | ~ ' | 20/11025 | (or 2SA1776Q or 2SA1776P | 1 ₺ |
| E10 | PQJE10025Z | LEAD WIRE | 1 1 | 1 | | or 2SB1488P or 2SB1488Q | J |
| - | | | l ' i | Q2 | 2SD662B | I | · . |
| [| | | | Q3 | 2SB1218A | · · · · · · · · · · · · · · · · · · · | , |
| | | | | 193 | 23012104 | TRANSISTOR(SI) | 1 |
| | · | HANDSET PART | L | Q4 | 2SD1819A | (or 2SA1603S or 2SA1576S) | 1 |
| | | HANDSELLANI | |] [4 | 25D1619A | TRANSISTOR(SI) | 1 |
| H1 | PQJX2PFA409Z | HANDSET ASSEMBLY | 1 1 | Q5 | 20042424 | (or 2SC4081S or 2SC4155S) | 1 |
| i''' | GONZI I ATUSZ | TANDSET ASSEMBLT | 1 ' | US | 2SD1819A | TRANSISTOR(SI) | 1 |
| | | | | 00 | DOLUTIOD COLOR | (or 2SC4081S or 2SC4155S) | 1 |
| | | ACCESSORIES | <u> </u> | Q6 Q7 | PQVTKSD261CY | TRANSISTOR(SI) | 1 |
| İ | | ACCESSORIES | | | UN5213 | TRANSISTOR(SI) S |] 1 |
| A1 | KX-A11 | AC ADAPTOR | | Q8 | 2SD1819A | TRANSISTOR(SI) | 1 |
| A2 | PQJA59V | • | 1 1 | | | (or 2SC4081S or 2SC4155S) | |
| A3 | | TELEPHONE CORD | 1 | Q9 | 2SD1819A | TRANSISTOR(SI) | 1 |
| | PQJA212N | HANDSET CORD | | _ | | (or 2SC4081S or 2SC4155S) | 1 |
| A4 | PQJN1M10AY | CASSETTE TAPE (10 MIN) | 1 1 | Q10 | 2SD1819A | TRANSISTOR(SI) | 1 |
| A5 | PQJN1M30AY | CASSETTE TAPE (30 MIN) | 1 | l | | (or 2SC4081S or 2SC4155S) | |
| A6 | PQQW10268Z | QUICK REFERENCE GUIDE | 1 | Q12 | 2SD1819A | TRANSISTOR(SI) | 1 |
| ١ | | (ENGLISH) | | 1 | | (or 2SC4081S or 2SC4155S) | |
| A7 | PQQW10269Z | QUICK REFERENCE GUIDE | 1 | Q13 | PQVTBB1A4M | TRANSISTOR(SI) | 1 1 |
| | l | (SPANISH) | | Q14 | 2SD1819A | TRANSISTOR(SI) | 1 1 |
| 8A | PQQW10270Z | DIAL CARD | 1 | l | | (or 2SC4081S or 2SC4155S) | 1 |
| A9 | PQQX10321Z | INSTRUCTION BOOK | 1 | Q15 | 2SD1819A | TRANSISTOR(SI) | 1 |
| | | | | | | (or 2SC4081S or 2SC4155S) | |
| | | | | Q16 | 2SD1819A | TRANSISTOR(SI) | 1 |
| | | | | 1 | | (or 2SC4081S or 2SC4155S) | |
| | F | PACKING MATERIALS | | Q17 | 2SD1819A | TRANSISTOR(SI) | 1 |
| | | | J | | 1 | (or 2SC4081S or 2SC4155S) | |
| P1 | PQPK10349Z | GIFT BOX | 1 | Q18 | PQVTBB1J3P | TRANSISTOR(SI) | 1 |
| P2 | PQPN10152Z | CUSHION | 1 | Q21 | 2SD2136 | TRANSISTOR(SI) | 1 |
| P3 | PQPN10153Z | ACCESSORY BOX | 1 | Q22 | 2SD2137 | TRANSISTOR(SI) | |
| P4 | PQPP170Z | PROTECTION COVER (for SET) | 1 | Q23 | 2SD1819A | TRANSISTOR(SI) | 1 ; |
| P5 | PQPH75Z | PROTECTION COVER | 1 | 1 | | (or 2SC4081S or 2SC4155S) | l ' |
| | | (for HANDSET) | · 1 | Q24 | 2SB1218A | TRANSISTOR(SI) | |
| | | (10.12.115621) | | 1927 | 20012107 | • | 1 |
| | | | | Q25 | 2SA854 | (or 2SA1603S or 2SA1576S) | l . |
| | | | | Q25 Q26 | 2SA854 | TRANSISTOR(SI) S | 1 |
| | FIX | (TURES AND TOOLS | | Q26 Q27 | 2SC1741S | TRANSISTOR(SI) S | 1 |
| | | | | 1927 | 23017413 | TRANSISTOR(SI) S | 1 |
| Z1 | PQJS11K3Z | EXTENSION CORD, 11 PIN | 1 | Q28 | 2SC1741S | (or 2SC2120) | |
| Z2 | PQJS6K2Z | EXTENSION CORD, 6 PIN | 1 | \Q20 | 23017413 | TRANSISTOR(SI) S | 1 |
| Z3 | PQZZLCT2401A | TEST TAPE (See page 19) | il | Q29 | 20017440 | (or 2SC2120) | |
| | (or QZZCWAT) | (See page 19) | ' | Q29 | 2SC1741S | TRANSISTOR(SI) S | 1 |
| | (or GZZOWWY) | ' | | امما | 2000400 | (or 2SC2120) | 1 |
| Note: | | | 1 | Q30 | 2SC2120 | TRANSISTOR(SI) S | 1 |
| | IS11K27 and DO | JS6K2Z are useful for servicing. | l | Q31 | 2SC2120 | TRANSISTOR(SI) S | 1 |
| The | y make servicing e | Social are useful for servicing. | | Q33 | 2SC3330 | TRANSISTOR(SI) | 1 |
| 2 00 | 771 CT24014 (c. (| 777CMAT) are passasistas (services | | l | | (or 2SC1740S or 3SC3311A) | 1 |
| 2. FQ2 | LELU 1 240 IA (OF C | QZŽĆWAT) are necessities for ser | vicing. | Q34 | 2SD1819A | TRANSISTOR(SI) | 1 |
| , | | 1 | į | 1 | l | (or 2SC4081S or 2SC4155S) | ĺ |
| | | | | Q35 | 2SD1819A | TRANSISTOR(SI) | 1 |
| | | <u> </u> | | Q37 | UN5213 | TRANSISTOR(SI) S | 1 |
| | PRINT | TED CIRCUIT BOARD PARTS | 1 | Q40 | UN5213 | TRANSISTOR(SI) S | 1 |
| 205 | | | | Q301 | 2SB1218A | TRANSISTOR(SI) | 1 |
| PCB1 | PQWPT2710M | P.C.BOARD ASSEMBLY (RTL) | 1 | | | (or 2SA1603S or 2SA1576S) | 1 |
| | | | - 1 | Q302 | 2SD1819A | TRANSISTOR(SI) | 1 |
| | | | | | | (or 2SC4081S or 2SC4155S) | • |
| 1 | | j l | | Q303 | 2SB1218A | TRANSISTOR(SI) | 1 |
| | | (ICS) | ł | | | (or 2SA1603S or 2SA1576S) | ' |
| C1] | PQVIBA8205 | ic` | 1 | Q304 | 2SB1218A | TRANSISTOR(SI) | 1 |
| С3 | PQVIUPC358C | ic | 1 | | , | (or 2SA1603S or 2SA1576S) | ' |
| | PQVIBA6220 | IC | 1 | | | (5. 25/110000 0/ 25/113/103/ | |
| | PQVIS79100PK | ic | 1 | | | | |
| 4 | | ic | 1 | | | (DIODES) | |
| | | IC | | l., | 100110 | (DIODES) | |
| | | | 1 | D1 | 1SS119 | DIODE(SI) | 1 🕭 |
| C301 | PQVI4618A78F | ic | 1 | D2 | 1SS119 | DIODE(SI) | 1 🛧 |
| 1 | |] | į. | D3 | 1SS119 | DIODE(SI) | 1 \Lambda |
| İ | | | | | 1SS119 | DIODE(SI) | 1 🛣 |
| | | I | | D5 | MA4300 | DIODE(SI) | 1 🕭 |
| | | | 1 | D6 | PQVDS5688G | DIODE(SI) | 1 🛆 |

| Ref. No | Part No. | Part Name & Description | Pcs/Set | Ref. No. | Part No. | Part Name & Description | Pcs/Set |
|----------------------|------------------------|-------------------------|---------|------------|------------------------|---|---------|
| D7 | PQVDS5688G | DIODE(SI) | 1 🛆 | S9 | EVQQJJ05Q | SWITCH, DIALING "9" | 1 |
| D8 | PQVDS5688G | DIODE(SI) | 1 🛕 | S10 | EVQQJJ05Q | SWITCH, DIALING "#" | ; |
| D9 | PQVDS5688G | DIODE(SI) | 1 🛣 | S11 | EVQ22405K | SWITCH, VOLUME DOWN | l i |
| D10 | MA4180 | DIODE(SI) | 1 1 1 | S12 | EVQQJJ05Q | SWITCH, DIALING "2" | 1 1 |
| D11 | 1SS119 | DIODE(SI) | 1 | S13 | EVQQJJ05Q | SWITCH, DIALING "5" | 1 |
| D12 | MA4062 | DIODE(SI) | 1 1 | S14 | EVQQJJ05Q | SWITCH, DIALING "8" | 1 |
| D14 | PQVDMTZ5R1 | DIODE(SI) | 1 1 | S15 | EVQQJJ05Q | SWITCH, DIALING "0" | 1 |
| D15 | 1SS119 | DIODE(SI) | 1 1 | S16 | EVQ22405K | SWITCH, VOLUME UP | 1 |
| D16 | 1SS119 | DIODE(SI) | 1 1 | S17 | EVQQJJ05Q | SWITCH, DIALING "1" | 1 |
| D17 D18 | 1SS119 | DIODE(SI) | 1 1 | S18 | EVQQJJ05Q | SWITCH, DIALING "4" | 1 |
| D21 | 1SS119 1SS119 | DIODE(SI) | 1 1 | S19 | EVQQJJ05Q | SWITCH, DIALING "7" | 1 |
| D21 | 188119 | DIODE(SI) | 1 1 | S20 | EVQQJJ05Q | SWITCH, TONE | 1 |
| D23 | PQVDS5688G | DIODE(SI) | | S21 S22 | EVQ22405K EVQ22405K | SWITCH, MONITOR | 1 |
| D24 | PQVDMTZ6R8 | DIODE(SI) | | S23 | EVQ22405K | SWITCH, MEMORY STATION | 1 |
| D25 | 1SS119 | DIODE(SI) | 1 1 | S24 | EVQ22405K | SWITCH, MEMORY STATION SWITCH, MEMORY STATION | 1 1 |
| D27 | MA4051 | DIODE(SI) | 1 ; 1 | S25 | EVQ22405K | SWITCH, MEMORY STATION | 1 1 |
| D28 | 1SS119 | DIODE(SI) | 1 1 | S26 | EVQ22405K | SWITCH, CLOCK | ; |
| D29 | 1SS119 | DIODE(SI) | i | S27 | EVQ22405K | SWITCH, MEMORY STATION | ; |
| D30 | 1SS119 | DIODE(SI) | 1 1 | S28 | EVQ22405K | SWITCH, MEMORY STATION | |
| D31 | 1SS119 | DIODE(SI) | 1 1 | S29 | EVQ22405K | SWITCH, MEMORY STATION | |
| D32 | 1SS119 | DIODE(SI) | 1 1 | S31 | EVQ22405K | SWITCH, GREETING CHECK | l i |
| D33 | 1SS119 | DIODE(SI) | 1 1 | S32 | EVQ22405K | SWITCH, GREETING RECORD | ; |
| D34 | 1SS119 | DIODE(SI) | 1 1 | S33 | EVQ22405K | SWITCH, GREETING SELECTOR | 1 |
| D35 | 1SS119 | DIODE(SI) | 1 1 | S34 | EVQ22405K | SWITCH, ICM ERASE | 1 |
| D36 | 1SS119 | DIODE(SI) | 1 1 | S35 | EVQ22405K | SWITCH, ALL MESSAGE | 1 |
| D41 | 1SS119 | DIODE(SI) | 1 1 | S36 | EVQ22405K | SWITCH, NEW MESSAGE | 1 |
| D42 | 1SS119 | DIODE(SI) | 1 1 | S37 | EVQ22405K | SWITCH, ANSWER ON | 1 |
| D47 | 1SS119 | DIODE(SI) | 1 1 | S38 | EVQ22405K | SWITCH, STOP | 1 |
| D48 | 1SS119 | DIODE(SI) | 1 | S39 | EVQ22405K | SWITCH, MEMO/2WAY RECORD | 1 |
| D60 D61 | MA700A | DIODE(SI) | 1 | S40 | EVQ22405K | SWITCH, FF/SKIP | 1 |
| D62 | 1SS119 MA141WK | DIODE(SI) | 1 1 | S41 | EVQ22405K | SWITCH, REW/REPEAT | 1 |
| D301 | MA4047 | DIODE(SI) DIODE(SI) | 1 1 | S42 | EVQ22405K | SWITCH, TRANSFER GREETING | 1 |
| D303 | 155119 | DIODE(SI) | 1 ! | S43 | EVQ22405K | SWITCH, LOWER | 1 |
| D304 | 155119 | DIODE(SI) | ! | S44 | EVQ22405K | SWITCH, PROGRAM | 1 |
| D310 | 188119 | DIODE(SI) | 1 1 | S45 S50 | ESE14A211 | SWITCH, HOOK | 1 ₺ |
| | 1.001,10 | Diobe(GI) | 1 ' 1 | S51 | PQSS2A27Z PQSS3A17Z | SWITCH, DIALING MODE | 1 |
| | | | | S52 | PQSS3A17Z | SWITCH, LCD CONTRAST | 1 |
| | | | 1 1 | S53 | PQSS3A17Z | SWITCH, RECORDING TIME SWITCH, RINGER SELECTOR | 1 |
| | | (LEDS) | 1 1 | S54 | PQSS2A27Z | SWITCH, MESSAGE ALERT | 1 |
| LED1 | LN268RPXTAB | LED | 1 1 | , | GOOLNE, E | SELECTOR | |
| LED2 | LN268RPXTAB | LED | 1 1 | | | SEEEOTON | |
| LED3 | LN260RPX | LED | 1 1 | 1 | | | |
| LED4 | LN342GPX | LED | 1 1 1 | | | (OTHERS) | |
| LED5 | PQVDSEL1123R | LED | 1 1 1 | SA1 | PQVDSAE310F1 | VARISTOR | 1 🛦 |
| | Ī | | 1 | VR1 | EVNDXAA03B52 | VARIABLE RESISTOR | 1 |
| |] | İ | | X1 | PQVBT4.0G2 | CERAMIC FILTER | 1 |
| | | (JACKS) | 1 1 | X2 | PQVBT7.68T1 | CERAMIC FILTER | 1 |
| JJ1 | PQJJ1TB18Z | JACK, HANDSET | 1 1 | X301 | PQVBB800J1 | CERAMIC FILTER | 1 |
| JJ2 | PQJJ2HA2Z | JACK, TELEPHONE/DC IN | 1 1 | X302 | PQVCL3276N6Z | CRYSTAL OSCILLATOR | 1 |
| | | | | LCD1 | PQADDLC2967P | LIQUID CRYSTAL DISPLAY | 1 |
| | | | 1 1 | PC1 | PQVIPC817K | PHOTO ELECTRIC TRANSDUCER | 1 |
| | | | 1 1 | PC2 | PQVIPC817K | PHOTO ELECTRIC TRANSDUCER | 1 |
| | | (CONNECTORS) | | PS1 | PQRPBC390N | THERMISTOR | 1 🛦 |
| CN1 | PQJP10A39Z | CONNECTOR, 10 PIN | 1 | | | | ш. |
| CN2 | PQJP06A38Z | CONNECTOR, 6 PIN | 1 1 | | | | |
| CN101 | PQJS30A19Z | CONNECTOR, 30 PIN | 1 1 | 1 . | | | |
| CN301 | PQJS30A19Z | CONNECTOR, 30 PIN | 1 1 | | | | |
| | | | | <u> </u> | | (RESISTORS) | |
| | | | | | ERDS1TJ622 | 6.2K | 1 🛧 |
| | | PMITCHES | | | PQ4R10XJ123 | 12K | 1 |
| 61 | EVOSSAGEN | (SWITCHES) | 1 , 1 | | PQ4R10XJ334 | 330K | 1 |
| S2 | EVQ22405K | SWITCH, REMOTE CODE | | | Not Used | 1 | |
| JE. | EVQ22405K EVQ22405K | SWITCH, TRANSFER | 1 ! | | PQ4R10XJ124 | 120K | 1 |
| | 1 - 4 WEE4VON | SWITCH, FLASH | 1 1 | | PQ4R18XJ331 | 330 | 1 |
| 33 | | SWITCH DEDIN | | In- | | | |
| 63 64 | EVQ22405K | SWITCH, REDIAL | 1 1 | | PQ4R10XJ224 | 220K | 1 |
| 63 64 65 | EVQ22405K EVQ22405K | SWITCH, PAUSE | 1 | R8 | PQ4R10XJ122 | 1.2K | 1 |
| 53 54 55 56 | EVQ22405K | | 1 ' 1 | R8 R9 | | 1 | |

| Ref. No. | Part No. | Part Name & Description | Pcs/Set | Ref. No. | Part No. | Part Name & Description | Pcs/Set |
|------------|----------------------------|-------------------------|---------|--------------|----------------------------|-------------------------|---------|
| R12 | Not Used | | | R83 | Not Used | | |
| R13 | ERDS1TJ470 | 47 | 1 | R84 | Not Used | | } |
| R14 | PQ4R10XJ102 | 1K | 1 | R85 | Not Used | | 1 |
| R15 | PQ4R10XJ103 | 10K | 1 1 | R86 | Not Used | | |
| R16 | PQ4R10XJ563 | 56K | 1 | R87 | PQ4R10XJ124 | 120K | 1 |
| R17 R18 | PQ4R10XJ473 PQ4R10XJ124 | 120K | 1 1 | R88 | PQ4R10XJ823 | 82K | 1 1 |
| R19 | PQ4R18XJ473 | 47K | 1 1 | R89 R90 | PQ4R10XJ563 PQ4R10XJ223 | 56K | 1 |
| R20 | PQ4R18XJ473 | 47K | | R91 | PQ4R10XJ471 | 22K 470 | |
| R21 | PQ4R18XJ682 | 6.8K | 1 i | R92 | Not Used | 1470 | 1 ' |
| R22 | PQ4R10XJ682 | 6.8K | 1 1 | R93 | PQ4R18XJ223 | 22K | 1 |
| R23 | ERD25TJ825 | 8.2M | 1 1 | R94 | PQ4R10XJ335 | 3.3M | 1 |
| R24 | PQ4R10XJ270 | 27 | 1 1 | R95 | Not Used | | |
| R25 | PQ4R10XJ153 | 15K | 1 1 | R96 | Not Used | | |
| R26 | PQ4R10XJ102 | 1K | 1 | R97 | PQ4R10XJ562 | 5.6K | 1 |
| R27 | PQ4R10XJ821 | 820 | 1 | R98 | PQ4R10XJ822 | 8.2K | 1 |
| R28 | PQ4R10XJ330 | 33 | 1 1 | R99 | Not Used | | |
| R29 | PQ4R10XJ103 | 10K | 1 1 | R100 | Not Used | | |
| R30 | PQ4R10XJ183 | 18K | 1 1 | R101 | PQRQ1VJ4R7 | 4.7 | 1 |
| R31 R32 | PQ4R10XJ103 PQ4R10XJ562 | 10K 5.6K | | R102 | ERDS1TJ391 | 390 | 1 1 |
| R33 | PQ4R10XJ394 | 390K | | R103 R104 | PQ4R18XJ563 | 56K | 1 1 |
| R34 | PQ4R10XJ103 | 10K | | R104 | PQ4R18XJ104 PQ4R10XJ474 | 100K 470K | 1 1 |
| R35 | PQ4R10XJ224 | 220K | ; | R105 | PQ4R10XJ105 | 1M | 1 |
| R36 | PQ4R10XJ472 | 4.7K | | R107 | PQ4R10XJ474 | 470K | 1 1 |
| R37 | PQ4R10XJ475 | 4.7M | 1 1 | R108 | PQ4R10XJ474 | 470K | |
| R38 | PQ4R10XJ472 | 4.7K | 1 1 | R109 | PQ4R10XJ474 | 470K | 1 |
| R39 | Not Used | | | R110 | PQ4R10XJ224 | 220K | l i |
| R40 | PQ4R10XJ680 | 68 | 1 | R111 | ERD25TJ220 | 22 | l i |
| R41 | PQ4R10XJ102 | 1K | 1 1 | R112 | PQ4R10XJ104 | 100K | 1 |
| R42 | Not Used | | 1 1 | R113 | ERD25TJ104 | 100K | 1 |
| R43 | PQ4R10XJ104 | 100K | 1 1 | R114 | PQ4R10XJ224 | 220K | 1 |
| R44 | PQ4R10XJ103 | 10K | 1 1 | R115 | PQ4R10XJ105 | 1M | 1 |
| R45 | PQ4R10XJ153 | 15K | 1 1 | R116 | ERD25TJ103 | 10K | 1 |
| R46 | PQ4R10XJ473 | 47K | 1 1 | R117 | PQ4R10XJ562 | 5.6K | 1 |
| R47 | Not Used | la av |] | R118 | PQ4R10XJ562 | 5.6K | 1 |
| R48 R49 | PQ4R10XJ822 | 8.2K | 1 1 | R119 | PQ4R10XJ564 | 560K | 1 |
| R50 | PQ4R10XJ473 Not Used | 47K | 1 | R120 | PQ4R10XJ221 | 220 | 1 |
| R51 | PQ4R18XJ153 | 15K | 1 , [| R121 | ERD25TJ151 | 150 | 1 1 |
| R52 | PQ4R10XJ474 | 470K | 1 1 | R122 R123 | PQ4R18XJ561 PQ4R10XJ102 | 560 1K | 1 1 |
| R53 | PQ4R10XJ105 | 1M | | R124 | PQ4R10XJ102 | 820 | ! |
| R54 | PQ4R10XJ154 | 150K | i | R125 | PQ4R10XJ102 | 1K | 1 1 |
| R55 | PQ4R18XJ102 | 1K | 1 1 | R126 | PQ4R18XJ681 | 680 | ; |
| R56 | PQ4R10XJ222 | 2.2K | 1 1 | R127 | PQ4R18XJ681 | 680 | 1 ; |
| R57 | PQ4R10XJ181 | 180 | 1 1 | R128 | PQ4R10XJ681 | 680 | 1 |
| R58 | PQ4R10XJ335 | 3.3M | 1 | R129 | ERD25TJ102 | 1K | 1 |
| | PQ4R10XJ152 | 1.5K | 1 1 | R130 | ERD25TJ102 | 1K | 1 |
| | PQ4R10XJ104 | 100K | 1 1 | R131 | PQ4R10XJ223 | 22K | 1 |
| | PQ4R10XJ274 | 270K | 1 1 | R132 | PQ4R10XJ223 | 22K | 1 |
| | ERD25TJ824 | 820K | 1 1 | R133 | PQ4R10XJ223 | 22K | 1 |
| | PQ4R10XJ154 | 150K | 1 | R134 | PQ4R10XJ223 | 22K | 1 |
| | Not Used | |] | R135 | PQ4R18XJ683 | 68K | 1 |
| | PQ4R10XJ102 | 1K | 1 1 | R136 | PQ4R18XJ683 | 68K | 1 |
| | PQ4R10XJ331 | 330 | 1 ! | R137 | PQ4R18XJ104 | 100K | 1 |
| | PQ4R10XJ182 PQ4R10XJ104 | 1.8K | ! | 1 | PQ4R10XJ104 | 100K | 1 |
| | Not Used | 100K | 1 1 | | Not Used | | |
| | Not Used | | 1 1 | R140 R141 | PQ4R18XJ393 | 39K | 1 |
| | Not Used | | 1 1 | | PQ4R18XJ393 ERDFS1TJ474 | 39K | 1 |
| | Not Used | | | R143 | PQ4R10XJ824 | 470K 820K | 1 1 |
| | Not Used | | | R144 | PQ4R18XJ334 | 330K | 1 |
| ı | Not Used | | | | PQ4R10XJ334 | 330K |] ¦ |
| | Not Used | | | 1 1 | PQ4R10XJ154 | 150K | |
| R76 | Not Used | | | 1 1 | PQ4R10XJ333 | 33K | |
| R77 | Not Used | | | 1 | PQ4R10XJ153 | 15K | |
| R78 | Not Used | | | | PQ4R18XJ223 | 22K | |
| | Not Used | | | | PQ4R18XJ223 | 22K | 1 1 |
| | Not Used | | | R151 | PQ4R10XJ562 | 5.6K | 1 |
| | Not Used | | | | PQ4R10XJ392 | 3.9K | 1 |
| R82 | Not Used | I | 1 1 | R153 | PQ4R10XJ223 | 22K | 1 1 |

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| Ref. No. | Part No. | Part Name & Description | Pcs/Set | Ref. No. | Part No. | Part Name & Description | Pcs/Set |
|--------------|----------------------------|-------------------------|---------|--------------|------------------------------|-------------------------|-----------------|
| R154 | PQ4R10XJ334 | 330K | 1 | R326 | Not Used | | 1 |
| R155 | PQ4R10XJ181 | 180 | 1 1 | R327 | Not Used | | |
| R156 | PQ4R10XJ223 | 22K | 1 | R328 | Not Used | | 1 |
| R157 | PQ4R10XJ103 | 10K | 1 1 | R329 | Not Used | | 1 |
| R158 R159 | PQ4R10XJ392 | 3.9K | 1 | R330 | PQ4R18XJ104 | 100K | 1 |
| R160 | PQ4R10XJ105 PQ4R10XJ102 | 1M 1K | | R331 | PQ4R10XJ105 | 1M | 1 1 |
| R161 | PQ4R18XJ563 | 56K | 1 1 | R332 R333 | PQ4R18XJ394 PQ4R10XJ105 | 390K 1M | 1 1 |
| R162 | PQ4R10XJ103 | 10K | | 11333 | FG4HT0X0105 | TIVI | 1 |
| R163 | PQ4R10XJ822 | 8.2K | | 1 | | ŀ | 1 |
| R164 | PQ4R10XJ682 | 6.8K | 1 1 | | | | |
| R165 | PQ4R10XJ153 | 15K | 1 | I | | | |
| R166 | PQ4R10XJ562 | 5.6K | 1 | | | | |
| R167 | PQ4R18XJ333 | 33K | 1 | | | | |
| R168 R169 | PQ4R18XJ121 | 120 | ! | | | | |
| R170 | ERD25TJ153 PQ4R10XJ474 | 15K 470K | 1 1 | | 50050540547 | (CAPACITORS) | |
| R171 | PQ4R10XJ103 | 10K | 1 1 | C1 C2 | ECQE2E105KZ ECEA1HU100 | 110 | 1 1 🛕 |
| R172 | PQ4R10XJ153 | 15K | 1 | C3 | ECEA1HKSR22 | 10 0.22 | 1 1 🕰 |
| R173 | PQ4R10XJ563 | 56K | ; | C4 | ECQM1H822JV | 0.0082 | ! |
| R174 | PQ4R10XJ332 | 3.3K | | C5 | ECKD2H681KB | 680P | 1 1 <u>↑</u> |
| | PQ4R10XJ104 | 100K | | C6 | ECKD2H681KB | 680P | 1 🗘 |
| | Not Used | | ' | C7 | Not Used | 0001 | 1 '43 |
| R177 | Not Used | | | C8 | PQCUV1H222KB | 0.0022 | 1 |
| R178 | PQ4R18XJ684 | 680K | 1 | C9 | ECUV1H103KB | 0.01 | 1 |
| R179 | PQ4R10XJ153 | 15K | 1 | C10 | ECEA1CU221 | 220 | 1 |
| R180 | PQ4R18XJ103 | 10K | 1 | C11 | ECEA1HKS010 | 1 | 1 |
| R181 | PQ4R10XJ334 | 330K | 1 | C12 | ECEA0JK331 | 330 | 1 1 |
| | | 1 | | C13 | ECEA1CKS100 | 10 | 1 1 |
| | | | | C14 | PQCUV1H223KB | 0.022 | 1 |
| R201 | PQ4R10XJ392 | 2.01/ | | C15 | ECEA1EK470 | 47 | 1 |
| | Not Used | 3.9K | 1 | C16 | PQCUV1E473MD | 0.047 | 1 1 |
| | PQ4R10XJ473 | 47K | 1 | C17 C18 | PQCUV1H222KB PQCUV1E473MD | 0.0022 | 1 |
| | Not Used | 771 | ' | C19 | ECEA1HKSR22 | 0.047 0.22 | 1 1 |
| | Not Used | | | C20 | PQCUV1H103KB | 0.01 | 1 1 |
| | PQ4R10XJ103 | 10K | 1 | C21 | Not Used | 0.01 | ' |
| R207 | PQ4R10XJ473 | 47K | 1 | C22 | ECEA1HKS0R1 | 0.1 | 1 |
| R208 | PQ4R10XJ330 | 33 | 1 | C23 | PQCUV1E333MD | 0.033 | 1 |
| R209 | PQ4R10XJ101 | 100 | 1 | C24 | PQCUV1E104MD | 0.1 | 1 |
| | Not Used | | | C25 | PQCUV1H103KB | 0.01 | 1 1 |
| | Not Used | | | C26 | PQCUV1H103KB | 0.01 | 1 |
| | Not Used | | | C27 | PQCUV1E333MD | 0.033 | 1 |
| R213 | PQ4R10XJ104 | 100K | 1 | C28 | PQCUV1C683MD | 0.068 | 1 |
| | | | | C29 | PQCUV1H122KB | 0.0012 | 1 |
| R301 | PQ4R10XJ104 | 100K | | C30 | ECEA1CKS100 | 10 | 1 |
| | PQ4R10XJ104 | 100K | 1 1 | C31 C32 | PQCUV1H103KB | 0.01 | 1 |
| | PQ4R10XJ104 | 100K | 1 | | Not Used PQCUV1H103KB | 0.01 | |
| | PQ4R18XJ102 | 1K | | | Not Used | 0.01 | ' |
| | Not Used | " | ' 1 | | Not Used | | |
| | PQ4R10XJ105 | 1M | 1 | 1 | Not Used | | |
| R307 | PQ4R10XJ224 | 220K | 1 | t l | Not Used | | |
| R308 | PQ4R10XJ335 | 3.3M | 1 | | Not Used | | |
| R309 | PQ4R10XJ334 | 330K | 1 | | Not Used | | |
| | PQ4R10XJ105 | 1M . | 1 | C40 | PQCUV1E153MD | 0.015 | 1 1 |
| 1 | PQ4R10XJ474 | 470K | 1 | C41 | Not Used | | |
| | PQ4R10XJ224 | 220K | 1 | C42 | Not Used | | |
| | PQ4R10XJ474 | 470K | 1 | 1 | Not Used | | |
| | PQ4R10XJ101 | 100 | 1 | 1 | Not Used | | |
| | PQ4R18XJ473 PQ4R10XJ104 | 147K | 1 | 2 | Not Used | | |
| | Not Used | 100K | 1 | 1 | Not Used | | |
| | Not Used | | | | Not Used | | |
| | PQ4R18XJ102 | 1K | | | Not Used | | |
| | PQ4R18XJ473 | 47K | 1 | 1 1 | Not Used Not Used | | |
| - 1 | PQ4R18XJ103 | 10K | 1 | | Not Used | | l i |
| | PQ4R10XJ103 | 10K | i | 1 1 | Not Used | | |
| - 1 | Not Used | | ' | | Not Used | : | |
| | Not Used | | l | 1 1 | Not Used | | |
| | Not Used | i | - 1 | , , | Not Used | i e | |

| Ref. No. | Part No. | Part Name & Description | Pcs/Set | Ref. No. | Part No. | Part Name & Description | Pcs/Set |
|--------------|------------------------------|-------------------------|---------|--------------|------------------------------|-------------------------|----------|
| C56 | Not Used | | 1 | C127 | PQCUV1H152KB | 0.0015 | 1 |
| C57 | Not Used | | | C128 | ECUV1H472KB | 0.0047 | ; |
| C58 | Not Used | | 1 [| C129 | ECUV1H103KB | 0.01 | 1 |
| C59 | ECEA1HKS0R1 | 0.1 | 1 | C130 | PQCUV1E153MD | 0.015 | 1 |
| C60 | PQCUV1E333MD | 0.033 | 1 1 | C131 | PQCUV1H681JC | 680P | 1 1 |
| C61 C62 | Not Used Not Used | | | C132 C133 | PQCUV1H681JC | 2.2 680P | 1 1 |
| C63 | Not Used | | | C133 | ECEA1HKSR47 | 0.47 | 1 1 |
| C64 | EECS5R5V224 | 0.22 | 1 1 | C135 | PQCUV1H103KB | 0.01 | 1 |
| C65 | Not Used | | 1 | C136 | ECEA1CKS100 | 10 | 1 |
| C66 | Not Used | | | C137 | PQCUV1H103KB | 0.01 | 1 |
| C67 C68 | Not Used Not Used | | | C138 C139 | ECEA1HKS0R1 ECUV1H153MD | 0.1 0.015 | 1 |
| C69 | Not Used | | 1 | C139 | ECEA1AU221 | 220 | |
| C70 | ECUV1H103KB | 0.01 | 1 1 | C141 | PQCUV1C683MD | 0.068 | Ì |
| C71 | Not Used | | | C142 | Not Used | | |
| C72 | Not Used | | 1 1 | C143 | PQCUV1H103KB | 0.01 | 1 |
| C73 | Not Used | ĺ | 1 | C144 | Not Used | L . | l . |
| C74 C75 | Not Used Not Used | | | C145 | PQCUV1E104MD | 0.1 | 1 1 |
| C75 | Not Used | | | C146 C147 | PQCUV1H103KB | 100 0.01 | 1 |
| C77 | Not Used | 1 | | C147 | PQCUV1H682KB | 0.0068 | ; |
| C78 | Not Used | | | C149 | Not Used | | 1 |
| C79 | Not Used | 1 | | C150 | ECEA1CKS100 | 10 | 1 |
| C80 | PQCUV1E104MD | 0.1 | 1 1 | C151 | Not Used | | |
| C81 C82 | Not Used Not Used | | | C152 | ECEA1CKS100 | 10 | 1 |
| C83 | ECEA0JKS220 | 22 | 1 1 | | | | |
| C84 | PQCUV1H681JC | 680P | 1 | C201 | ECEA1CKS220 | 22 | 1 |
| C85 | PQCUV1H103KB | 0.01 | 1 1 | C202 | ECUV1H103KB | 0.01 | 1 |
| C86 | Not Used | | | C203 | ECEA1CKS470 | 47 | 1 |
| C87 C88 | Not Used ECEA1AU221 | 220 | 1.1 | C204 C205 | Not Used | 470P | ١. |
| C89 | Not Used | 220 | 1 | C205 | PQCUV1H471JC | 470 | 1 |
| C90 | PQCUV1H223KB | 0.022 | 1 | | , | | |
| C91 | ECEA1HKS0R1 | 0.1 | 1 1 | C301 | PQCUV1H103KB | 0.01 | 1 |
| C92 | Not Used | | | C302 | PQCUV1H103KB | 0.01 | 1 |
| C93 C94 | Not Used Not Used | | 1 1 | C303 | PQCUV1E473MD | 0.047 | 1 |
| C95 | Not Used | | | C304 C305 | Not Used PQCUV1E473MD | 0.047 | ١, |
| C96 | Not Used | |]] | C306 | PQCUV1H102J | 0.001 | 1 |
| C97 | Not Used | | 1 1 | C307 | PQCUV1H221JC | 220P | 1 |
| C98 | Not Used | | | C308 | PQCUV1H221JC | 220P | 1 |
| C99 | Not Used | | | C309 | PQCUV1H180JC | 18P | 1 |
| C100 C101 | ECEA1CKS470 ECUV1H104MD | 0.1 | 1 1 | C310 C311 | PQCUV1H150JC PQCUV1H103KB | 15P 0.01 | 1 1 |
| C102 | ECEA1AU222 | 2200 | | C312 | Not Used | 0.01 | i ' |
| C103 | Not Used | | 1 | C313 | PQCUV1H103KB | 0.01 | 1 |
| C104 | ECEA1HKS0R1 | 0.1 | 1 1 | | | | |
| C105 | ECEA1CKS470 | 47 | 1 | | | | |
| C106 | Not Used | 0.01 | 1 . 1 | | | | |
| C107 C108 | PQCUV1H103KB PQCUV1H103KB | 0.01 | | 1 | | | |
| C108 | PQCUV1E473MD | 0.047 | | 1 | | | |
| C110 | PQCUV1H103KB | 0.01 | | 1 | 1 | } | |
| C111 | PQCUV1H103KB | 0.01 | 1 | | 1 | | |
| C112 | Not Used | | | | | | |
| C113 | PQCUV1H102J | 0.001 | 1 | | | | |
| C114 C115 | PQCUV1H103KB ECEA1CKS470 | 0.01 47 | | 1 | | 1 | |
| C116 | ECKTAE103ZF | 0.01 | | 1 | | 1 | I |
| C117 | ECEA1CKS100 | 10 | 1 | 1 | | 1 | 1 |
| C118 | PQCUV1H102J | 0.001 | 1 | 1 | | 1 | 1 |
| C119 | PQCUV1H102J | 0.001 | 1 | 1 | [| | 1 |
| C120 | ECEA1AKS330 | 33 470B | 1 1 | | | | } |
| C121 C122 | ECUV1H471JC ECEA1CK101 | 470P 100 | 1 1 | 1 | | | 1 |
| C123 | ECUV1H103KB | 0.01 | | | | | |
| C124 | Not Used | | | | | | |
| C125 | PQCUV1H682KB | 0.0068 | 1 1 | 1 | | 1 | |
| C126 | PQCUV1E333MD | 0.033 | | | <u> </u> | | <u> </u> |